Please amend the claims as follows:

22. (Once Amended) An isolated polynucleotide comprising a first nucleic acid at least 90% identical to a [reference] second nucleic acid encoding amino acids 24 to 468 of SEQ ID NO:2.

C3

23. (Once Amended) The isolated polynucleotide of claim 22, wherein said first nucleic acid is at least 95% identical to said [reference] second nucleic acid.

24. (Once Amended) The isolated polynucleotide of claim 22, [which comprises a nucleic acid encoding] wherein said first nucleic acid encodes amino acids 24 to 468 of SEQ ID NO:2.

26. (Once Amended) The isolated polynucleotide of claim 22, wherein said [reference] second nucleic acid encodes amino acids 2 to 468 of SEQ ID NO:2.

C4

27. (Once Amended) The isolated polynucleotide of claim 26, [which comprises a nucleic acid encoding] wherein said first nucleic acid encodes amino acids 2 to 468 of SEQ ID NO:2.

29. (Once Amended) The isolated polynucleotide of claim 26, wherein said [reference] second nucleic acid encodes amino acids 1 to 468 of SEQ ID NO:2.

C5

C

30. (Once Amended) The isolated polynucleotide of claim 29, [which comprises a nucleic acid encoding] wherein said first nucleic acid encodes amino acids 1 to 468 of SEQ ID NO:2.

35. (Once Amended) The isolated polynucleotide of claim [34] 22, wherein said first nucleic acid encodes a polypeptide which binds TNF-related apoptosis-inducing ligand (TRAIL).

36. (Once Amended) The isolated polynucleotide of claim 22, wherein said first nucleic acid encodes a polypeptide which induces apoptosis.

44. (Once Amended) A host cell comprising the isolated polynucleotide of claim 35 [34].

47. (Once Amended) A method of producing [a] the polypeptide encoded by said first nucleic acid of claim 35, comprising:

(a) culturing [the] a host cell comprising said first nucleic acid [of claim 99] under conditions such that said polypeptide is expressed[,]; and

(b) recovering said polypeptide.

48. (Once Amended) An isolated polynucleotide comprising a first nucleic acid at least 90% identical to a [reference] second nucleic acid encoding amino acids 24 to 238 of SEQ ID NO:2.

49. (Once Amended) The isolated polynucleotide of claim 48, wherein said first nucleic acid is at least 95% identical to said [reference] second nucleic acid.

C8cont

50. (Once Amended) The isolated polynucleotide of claim 48, [which comprises a nucleic acid encoding] wherein said first nucleic acid encodes amino acids 24 to 238 of SEQ ID NO:2.

C9

53. (Once Amended) The isolated polynucleotide of claim [52] 48, wherein said first nucleic acid encodes a polypeptide which binds TRAIL.

C10

64. (Once Amended) A host cell comprising the isolated polynucleotide of claim [52] 53.

67. (Once Amended) A method of producing [a] the polypeptide encoded by said first nucleic acid of claim 53, comprising:

(a) culturing [the] a host cell comprising said first nucleic acid [of claim 64] under conditions such that said polypeptide is expressed[,]; and

(b) recovering said polypeptide.

C11

68. (Once Amended) An isolated polynucleotide comprising a nucleic acid at least 90% identical to nucleotides 733 to 810 of SEQ ID NO:1 [a reference nucleic acid encoding amino acids 239 to 264 of SEQ ID NO:2].

69. (Once Amended) The isolated polynucleotide of claim 68, wherein said nucleic acid is at least 95% identical to nucleotides 733 to 810 of SEQ ID NO:1 [said reference nucleic acid].

Cl6 Cl6'

70. (Once Amended) The isolated polynucleotide of claim 68, [which] wherein said nucleic acid comprises nucleotides 733 to 810 of SEQ ID NO:1 [a nucleic acid encoding amino acids 239 to 264 of SEQ ID NO:2].

Cl7

72. (Once Amended) The isolated polynucleotide of claim 68, wherein said nucleic acid encodes a polypeptide [which binds a TNF ligand].

84. (Once Amended) A method of producing [a] the polypeptide encoded by said nucleic acid of claim 72, comprising:

(a) culturing [the] a host cell comprising said nucleic acid [of claim 82] under conditions such that said polypeptide is expressed[,]; and

(b) recovering said polypeptide.

Cl3

85. (Once Amended) An isolated polynucleotide comprising a first nucleic acid at least 90% identical to a [reference] second nucleic acid encoding amino acids 265 to 468 of SEQ ID NO:2.

86. (Once Amended) The isolated polynucleotide of claim 85, wherein said first nucleic acid is at least 95% identical to said [reference] second nucleic acid.

87. (Once Amended) ~~The~~ isolated polynucleotide of claim 85, [which comprises a nucleic acid encoding] wherein said first nucleic acid encodes amino acids 265 to 468 of SEQ ID NO:2.

89. (Once Amended) The isolated polynucleotide of claim 85, wherein said first nucleic acid encodes a polypeptide, and wherein a DR4 variant consisting of amino acids 24 to 468 of SEQ ID NO:2, with the exception that amino acids 265-468 of SEQ ID NO:2 are deleted and replaced with said polypeptide, [said nucleic acid encodes a polypeptide which] induces apoptosis *in vitro* when over-expressed in human 293 embryonic kidney cells.

101. (Once Amended) A method of producing [a] the polypeptide encoded by said first nucleic acid of claim 89, comprising:

(a) culturing [the] a host cell comprising said first nucleic acid [of claim 99] under conditions such that said polypeptide is expressed[,]; and

(b) recovering said polypeptide.

102. (Once Amended) An isolated polynucleotide comprising a first nucleic acid at least 90% identical to a [reference] second nucleic acid encoding amino acids 379 to 422 of SEQ ID NO:2;

wherein said first nucleic acid encodes a polypeptide; and

wherein a DR4 variant consisting of amino acids 24 to 468 of SEQ ID NO:2, with the exception that amino acids 379 to 422 of SEQ ID NO:2 are deleted and replaced with said polypeptide, [said polynucleotide encodes a polypeptide which] induces apoptosis *in vitro* when over-expressed in human 293 embryonic kidney cells.

C15

103. (Once Amended) The isolated polynucleotide of claim 102, wherein said first nucleic acid is at least 95% identical to said [reference] second nucleic acid.

104. (Once Amended) The isolated polynucleotide of claim 102, [which comprises a nucleic acid encoding] wherein said first nucleic acid encodes amino acids 379 to 422 of SEQ ID NO:2.

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118. (Once Amended) A method of producing [a] the polypeptide encoded by said first nucleic acid of claim 102, comprising:

C16

(a) culturing [the] a host cell comprising said first nucleic acid [of claim 113] under conditions such that said polypeptide is expressed[,]; and

(b) recovering said polypeptide.

120. (Once Amended) An isolated polynucleotide comprising a first nucleic acid at least 90% identical to a second [reference] nucleic acid encoding the mature amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97853.

121. (Once Amended) The isolated polynucleotide of claim 120, wherein said first nucleic acid is at least 95% identical to said second [reference] nucleic acid.

122. (Once Amended) The isolated polynucleotide of claim 120, [which comprises a nucleic acid encoding] wherein said first nucleic acid encodes the mature amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97853.

C17

123. (Once Amended) The isolated polynucleotide of claim 120, wherein said second [reference] nucleic acid encodes the complete amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97853.

124. (Once Amended) The isolated polynucleotide of claim 123, [which comprises a nucleic acid encoding] wherein said first nucleic acid encodes the complete amino acid sequence encoded by the cDNA clone in ATCC Deposit No. 97853.

126. (Once Amended) The isolated polynucleotide of claim [125] 120, wherein said first nucleic acid encodes a polypeptide which binds TRAIL.

C18

C

C18 C24

127. (Once Amended) The isolated polynucleotide of claim 120, wherein said first nucleic acid encodes a polypeptide which induces apoptosis.

C19

135. (Once Amended) A host cell comprising the isolated polynucleotide of claim [125] 126.

C20

138. (Once Amended) A method of producing [a] the polypeptide encoded by said first nucleic acid of claim 126, comprising:

(a) culturing [the] a host cell comprising said first nucleic acid [of claim 135] under conditions such that said polypeptide is expressed[,]; and

(b) recovering said polypeptide.

C21

141. (Once Amended) The isolated polynucleotide of claim 139, which encodes a polypeptide [which binds a TNF ligand].

C22

156. (Once Amended) A method of producing [a] the polypeptide encoded by said polynucleotide of claim 141, comprising:

(a) culturing [the] a host cell comprising said polynucleotide [of claim 153] under conditions such that said polypeptide is expressed[,]; and

(b) recovering said polypeptide.

158. (Once Amended) [The] An isolated polynucleotide [of claim 157, wherein said] comprising a nucleic acid [encodes] encoding at least 50 contiguous amino acids from 1 to 238 of SEQ ID NO:2.

159. (Once Amended) The isolated polynucleotide of claim [157, which comprises a nucleic acid encoding] 158, wherein said nucleic acid encodes amino acids 132 to 221 of SEQ ID NO:2.

160. (Once Amended) The isolated polynucleotide of claim [157] 158, wherein said nucleic acid encodes a polypeptide comprising amino acids 35 to 92 of SEQ ID NO:2; and

wherein said [at least 30 contiguous amino acids] polypeptide bind an antibody with specificity for the polypeptide of amino acids 24 to 468 of SEQ ID NO:2.

161. (Once Amended) The isolated polynucleotide of claim [157] 158, wherein said nucleic acid encodes a polypeptide comprising amino acids 114 to 160 of SEQ ID NO:2; and

wherein said [at least 30 contiguous amino acids] polypeptide bind an antibody with specificity for the polypeptide of amino acids 24 to 468 of SEQ ID NO:2.

In claims 165, 169, 170, and 172, please delete "157" and insert therefor --158--.

177. (Once Amended) A method of producing a polypeptide encoded by said nucleic acid of claim 158, comprising:

(a) culturing [the] a host cell comprising said nucleic acid [of claim 174] under conditions such that said polypeptide is expressed[,]; and

(b) recovering said polypeptide.

193. (Once Amended) A method of producing a polypeptide encoded by said nucleic acid of claim 178, comprising:

(a) culturing [the] a host cell comprising said nucleic acid [of claim 190] under conditions such that said polypeptide is expressed[,]; and

(b) recovering said polypeptide.

194. (Once Amended) An isolated polynucleotide comprising a nucleic acid which hybridizes to the complement of nucleotides 88 to 732 of SEQ ID NO:1[, or the complement thereof,] under conditions comprising:

(a) incubating at 42°C in a solution consisting of 50% formamide, 5x SSC, 50 mM sodium phosphate (pH 7.6), 5x Denhardt's solution, 10% dextran sulfate, and 20 µg/ml denatured, sheared salmon sperm DNA; and

(b) washing at 65°C in a solution consisting of 0.1x SSC;

wherein a said nucleic acid encodes a polypeptide which binds TRAIL [a TNF ligand].

195. (Once Amended) The isolated polynucleotide of claim 194, wherein said nucleic acid hybridizes to the complement of nucleotides 412 to 681 of SEQ ID NO:1[, or the complement thereof].

208. (Once Amended) A method of producing [a] the polypeptide encoded by said nucleic acid of claim 194, comprising:

(a) culturing [the] a host cell comprising said nucleic acid [of claim 205] under conditions such that said polypeptide is expressed[,]; and

(b) recovering said polypeptide.

Please add the following claims:

-- 209. An isolated polynucleotide comprising a nucleic acid encoding at least 30 contiguous amino acids of SEQ ID NO:2, wherein said nucleic acid is operatively associated with one or more regulatory elements capable of directing translation of said at least 30 contiguous amino acids.

210. The isolated polynucleotide of claim 209, further comprising a heterologous polynucleotide.

211. The isolated polynucleotide of claim 210, wherein said heterologous polynucleotide encodes a heterologous polypeptide.

212. The isolated polynucleotide of claim 211, wherein said heterologous polypeptide comprises an immunoglobulin Fc region.

213. The isolated polypeptide of claim 212, wherein said immunoglobulin Fc region is a human immunoglobulin Fc region.

214. A method of producing a vector that comprises inserting the isolated polynucleotide of claim 209 into a vector.

215. A vector comprising the isolated polynucleotide of claim 209.

216. The vector of claim 215, wherein said polynucleotide is operably associated with a heterologous regulatory sequence.

C27

217. A host cell comprising the isolated polynucleotide of claim 209.

218. The host cell of claim 217, wherein said isolated polynucleotide is operably associated with a heterologous regulatory sequence.

219. A method of producing a polypeptide encoded by said nucleic acid of claim 209, comprising:

(a) culturing a host cell comprising said nucleic acid under conditions such that said polypeptide is expressed; and

(b) recovering said polypeptide.--